

LISTING OF CLAIMS:

1. (Original) A composition suitable for medical and surgical applications, comprising:

a biologically compatible scaffold material having at least one irregular surface, and

a biologically compatible light-activated adhesive, the light-activated adhesive being coupled to the scaffold to form a composite, such that when the irregular surface of the composite is applied to biological tissue and the composite is activated by light energy to repair the biological tissue, the composite has a tensile strength of at least about 130% of the tensile strength of the adhesive alone.

2. (Original) The composition of claim 1, wherein the time-to-failure of the biological tissue repair is at least about 150% of the time-to-failure of a composite when a smooth surface of the scaffold is applied.

3. (Original) The composition of claim 1, wherein the light-activated adhesive comprises a light absorber.

4. (Original) The composition of claim 3, wherein the light absorber includes one of indocyanine green (ICG), methylene blue (MB), food colorings, pH indicators, water, hemoglobin, and photosensitive pharmaceuticals.

5. (Original) The composition of claim 1, wherein the scaffold material comprises one of small intestine submucosa and poly(L-lactic-co-glycolic acid) (PLGA).

6. (Withdrawn) A composition adaptable to repair biological tissue, comprising:
a biologically compatible scaffold material,
a biologically compatible adhesive, and

a light absorber including one of food colorings, pH indicators, water, hemoglobin, and photosensitive pharmaceuticals.

7. (Withdrawn) The composition of claim 6, wherein the light absorber includes one of red food coloring, blue food coloring and green food coloring.

8. (Withdrawn) The composition of claim 6, wherein the light absorber is selected to provide a solder/interface temperature of $66 \pm 3^{\circ}\text{C}$.

9. (Withdrawn) The composition of claim 6, wherein the light absorber concentration is about $200 - 1000 \mu\text{L} / 13 \text{ mL}$ of deionized water.

10. (Withdrawn) The composition of claim 9, wherein the light absorber concentration is about $600 \mu\text{L} / 13 \text{ mL}$ deionized water.

11. (Withdrawn) The composition of claim 7, wherein the red food coloring includes red #40.

12. (Withdrawn) The composition of claim 7, wherein the blue food coloring includes blue #1.

13. (Withdrawn) The composition of claim 6, wherein the green food coloring includes blue #1 and yellow #5.

14. – 31 (Canceled)